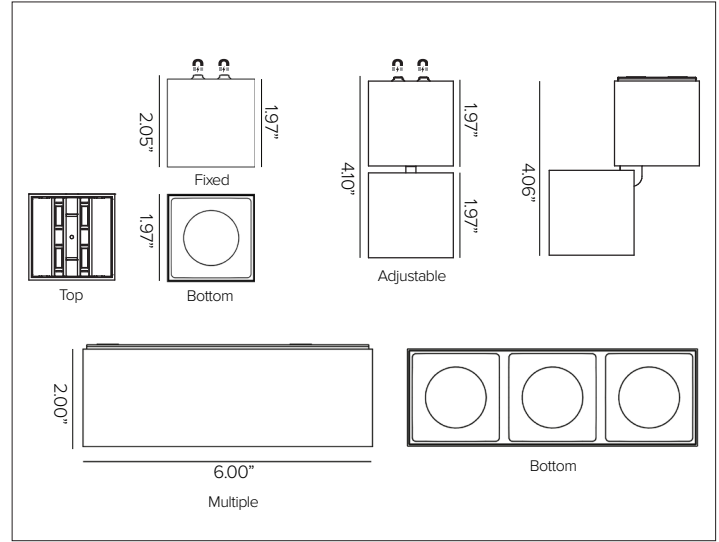
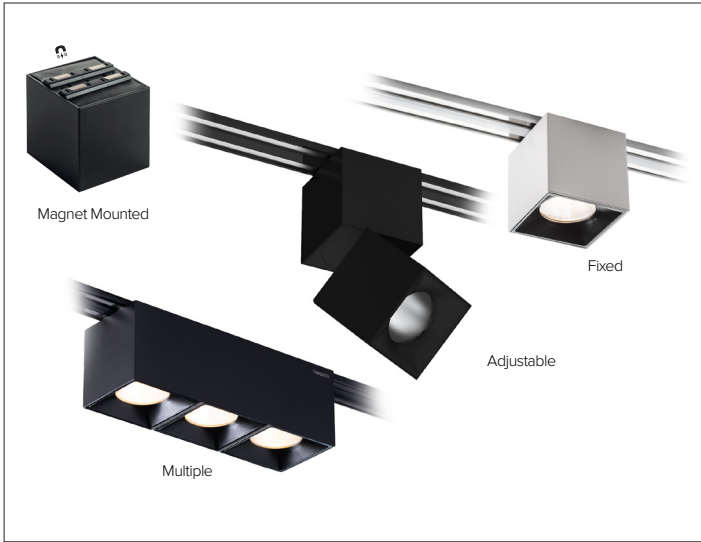


# OZ 48V LARGE

## Magnet Mounted Modular Light System



### CONCEPT

Professional magnet mounted low voltage modular light system allowing for maximum application flexibility.

### MECHANICAL CHARACTERISTICS

<b>Dimensions</b>	2"W nominal luminaire profile range
<b>Materials</b>	Die cast aluminum finished body. Front internal reflector in black finish polycarbonate.
<b>Finish</b>	● Plaster White ● Deep Black
<b>Power Connection</b>	Magnetized electrical non-polarized coupling system.
<b>Functionality</b>	The adjustable luminaire version utilizes a mechanical aim lock friction system in both the vertical and horizontal planes.
<b>Mounting</b>	Simple magnetized coupling system that mounts directly to <a href="#">OZ 48V POWER RAIL</a> . Provides an easy installation for fixture field mounting and reconfigurations. This modular system meets seismic requirements; no extra security is required.
<b>Weight</b>	Fixed: 0.20lbs / Adjustable: 0.44lbs / Multiple: 0.47 lbs
<b>Protection</b>	IP20

### CERTIFICATIONS

cULus Class 2 Listed E528452  
 Tested in accordance with LM-79-08.  
 Compliant with California energy regulations.  
 RoHS3 EU 215/863

### WARRANTY

5 year limited warranty.

### SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

### ELECTRICAL CHARACTERISTICS

<b>Power Supply</b>	Remote power supply options available.
<b>Wattage</b>	Fixed and Adjustable 8W nominal / Multiple 21W nominal
<b>Voltage</b>	48V
<b>Control</b>	0-10V dimmable through remote power / digital dimming interface for group fixture control OR wireless bluetooth control through Casambi app interface for individual fixture and/or optical DBS beam control. Refer to <a href="#">Targetti LMS (Light Management System)</a> for detailed information.

### SOURCE

High efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	Rf	Rg	SDCM
	2700K	90	92	99	2
	3000K	90	92	101	2
	3500K	90	100	99	2
	4000K	90	90	98	2

### OPTIC

Optical system dependent on beam angle. SP and FL versions comprised of metalized polycarbonate precision optic, holographic diffuser filter. MWFL version comprised of convex faceted high reflectance anodized aluminum precision optic, holographic diffuser filter. DBS optic comprised of a specular anodized aluminum reflector, a Lens Vector liquid crystal glass lenses that are electronically controlled to regulate light diffusion and the beam opening from SP to MWFL with holographic filter.

Beam	SP 19°	FL 27°	MWFL 37°	DBS 22° – 46°
<b>Delivered Lumens</b>	<b>2700K</b> 641Lm	692Lm	762Lm	548-576Lm
<i>Data represents Fixed and Adjustable luminaire options only. Refer to photometry section for all fixture variations.</i>	<b>3000K</b> 691Lm	720Lm	794Lm	591-621Lm
	<b>3500K</b> 712Lm	730Lm	804Lm	616-647Lm
	<b>4000K</b> 734Lm	732Lm	806Lm	627-659Lm
<b>Efficacy</b>	115Lm/W max. Refer to photometric graphs for specific values.			
<b>Lifetime</b>	L80/B10 >100,000hrs at max TA +25°C			
<b>Photobiological Classification</b>	Low risk photobiological safety RG1			

# OZ 48V LARGE

## SPECIFICATION INFORMATION



1 - PRODUCT CODE	2 - TYPE	3 - FINISH	4 - FINISH	5 - WATTAGE	6 - OPTICS	7 - KELVIN
OZ — OZ 48V	21F <sup>A</sup> — Large 2" X 2" Fixed	— — 0-10V Digital Dim	PW — Plaster White	L1 — 8W	SP — SP 19°	27 — 2700K
	21A <sup>A</sup> — Large 2" X 2" Adjustable		DB — Deep Black		FL — FL 27°	30 — 3000K
	23M <sup>B</sup> — Large 2" X 6" Fixed Multiple		RAL — <a href="#">Custom RAL</a>	L3 — 21W	MW — MWFL 37°	35 — 3500K
						40 — 4000K
						27 — 2700K
						30 — 3000K
						35 — 3500K
						40 — 4000K
OZ — OZ 48V	21FC <sup>A</sup> — Large 2" X 2" Fixed Wireless	C — Casambi Wireless Bluetooth	PW — Plaster White	L5 — 8W	SP — SP 19°	27 — 2700K
	21AC <sup>A</sup> — Large 2" X 2" Adjustable Wireless		DB — Deep Black		FL — FL 27°	30 — 3000K
	23MC <sup>B</sup> — Large 2" X 6" Fixed Multiple Wireless		RAL — <a href="#">Custom RAL</a>	L7 — 21W	MW — MWFL 37°	35 — 3500K
						40 — 4000K
						DBS <sup>C</sup> — DBS

8 - RAIL & DRIVER	9 - PROFILE
<p><b>REQUIRED</b></p> <p>See <a href="#">OZ 48V POWER RAIL</a> spec sheet for specification information.</p>	<p><b>OPTIONAL</b></p> <p>See OZ 48V <a href="#">PROFILE</a> spec sheets for specification information. <a href="#">SURFACE/</a> <a href="#">SUSPENSION</a> or <a href="#">RECESSED</a>.</p>

<sup>A</sup> Fixed and Adjustable versions available in 8W only.

<sup>B</sup> Multiple version available in 21W only.

<sup>C</sup> DBS optic available in Fixed and Adjustable fixtures with Casambi Wireless Bluetooth control, 8W only.

# OZ 48V LARGE

## PHOTOMETRY

### SPOT



		2700K	H(m)	D(m)	Emax(lx)	
		Ra90		19°		
Fixture Power	8W	1	0.34	3629		
Source Flux	785lm	2	0.68	907		
Fixture Flux	641lm	3	1.02	403		
Efficacy	84lm/W	4	1.36	227		
TS1125	I <sub>max</sub> =4623cd/klm	I <sub>max</sub>	3629cd	5	1.70	145

Maximum UGR = 3.4 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)	
		Ra90		19°		
Fixture Power	8W	1	0.34	3911		
Source Flux	846lm	2	0.68	978		
Fixture Flux	691lm	3	1.02	435		
Efficacy	91lm/W	4	1.36	244		
TS1125	I <sub>max</sub> =4623cd/klm	I <sub>max</sub>	3911cd	5	1.70	156

Maximum UGR = 3.6 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)	
		Ra90		19°		
Fixture Power	8W	1	0.34	4031		
Source Flux	872lm	2	0.68	1008		
Fixture Flux	712lm	3	1.02	448		
Efficacy	94lm/W	4	1.36	252		
TS1125	I <sub>max</sub> =4623cd/klm	I <sub>max</sub>	4031cd	5	1.70	161

Maximum UGR = 3.7 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)	
		Ra90		19°		
Fixture Power	8W	1	0.34	4156		
Source Flux	899lm	2	0.68	1039		
Fixture Flux	734lm	3	1.02	462		
Efficacy	97lm/W	4	1.36	260		
TS1125	I <sub>max</sub> =4623cd/klm	I <sub>max</sub>	4156cd	5	1.70	166

Maximum UGR = 3.8 (based on actual lumens)

### FLOOD



		2700K	H(m)	D(m)	Emax(lx)	
		Ra90		27°		
Fixture Power	7W	1	0.49	2266		
Source Flux	925lm	2	0.98	567		
Fixture Flux	692lm	3	1.47	252		
Efficacy	96lm/W	4	1.95	142		
TS1126	I <sub>max</sub> =2450cd/klm	I <sub>max</sub>	2266cd	5	2.44	91

Maximum UGR = 5.0 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)	
		Ra90		27°		
Fixture Power	7W	1	0.49	2359		
Source Flux	963lm	2	0.98	590		
Fixture Flux	720lm	3	1.47	262		
Efficacy	100lm/W	4	1.95	147		
TS1126	I <sub>max</sub> =2450cd/klm	I <sub>max</sub>	2359cd	5	2.44	94

Maximum UGR = 5.2 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)	
		Ra90		27°		
Fixture Power	7W	1	0.49	2391		
Source Flux	976lm	2	0.98	598		
Fixture Flux	730lm	3	1.47	266		
Efficacy	101lm/W	4	1.95	149		
TS1126	I <sub>max</sub> =2450cd/klm	I <sub>max</sub>	2391cd	5	2.44	96

Maximum UGR = 5.2 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)	
		Ra90		27°		
Fixture Power	7W	1	0.49	2396		
Source Flux	978lm	2	0.98	599		
Fixture Flux	732lm	3	1.47	266		
Efficacy	102lm/W	4	1.95	150		
TS1126	I <sub>max</sub> =2450cd/klm	I <sub>max</sub>	2396cd	5	2.44	96

Maximum UGR = 5.2 (based on actual lumens)

# OZ 48V LARGE

## PHOTOMETRY

### MEDIUM WIDE FLOOD



		2700K	H(m)	D(m)	Emax(lx)	
		Ra90		37°		
Fixture Power	7W	1	0.66	1754		
Source Flux	925lm	2	1.32	439		
Fixture Flux	762lm	3	1.98	195		
Efficacy	106lm/W	4	2.64	110		
TS1127	I <sub>max</sub> =1896cd/klm	I <sub>max</sub>	1754cd	5	3.31	70

Maximum UGR = 4.1 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)	
		Ra90		37°		
Fixture Power	7W	1	0.66	1826		
Source Flux	963lm	2	1.32	457		
Fixture Flux	794lm	3	1.98	203		
Efficacy	110lm/W	4	2.64	114		
TS1127	I <sub>max</sub> =1896cd/klm	I <sub>max</sub>	1826cd	5	3.31	73

Maximum UGR = 4.3 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)	
		Ra90		37°		
Fixture Power	7W	1	0.66	1851		
Source Flux	976lm	2	1.32	463		
Fixture Flux	804lm	3	1.98	206		
Efficacy	112lm/W	4	2.64	116		
TS1127	I <sub>max</sub> =1896cd/klm	I <sub>max</sub>	1851cd	5	3.31	74

Maximum UGR = 4.3 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)	
		Ra90		37°		
Fixture Power	7W	1	0.66	1855		
Source Flux	978lm	2	1.32	464		
Fixture Flux	806lm	3	1.98	206		
Efficacy	112lm/W	4	2.64	116		
TS1127	I <sub>max</sub> =1896cd/klm	I <sub>max</sub>	1855cd	5	3.31	74

Maximum UGR = 4.3 (based on actual lumens)

### SPOT (MULTIPLE)



		2700K	H(m)	D(m)	Emax(lx)	
		Ra90		19°		
Fixture Power	20W	1	0.34	10886		
Source Flux	2355lm	2	0.68	2722		
Fixture Flux	1924lm	3	1.02	1210		
Efficacy	96lm/W	4	1.36	680		
TS1125	I <sub>max</sub> =4623cd/klm	I <sub>max</sub>	10886cd	5	1.70	435

Maximum UGR = 3.4 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)	
		Ra90		19°		
Fixture Power	20W	1	0.34	11732		
Source Flux	2538lm	2	0.68	2933		
Fixture Flux	2074lm	3	1.02	1304		
Efficacy	103lm/W	4	1.36	733		
TS1125	I <sub>max</sub> =4623cd/klm	I <sub>max</sub>	11732cd	5	1.70	469

Maximum UGR = 3.6 (based on actual lumens)



		3500K	H(m)	D(m)	Emax(lx)	
		Ra90		19°		
Fixture Power	20W	1	0.34	12093		
Source Flux	2616lm	2	0.68	3023		
Fixture Flux	2137lm	3	1.02	1344		
Efficacy	106lm/W	4	1.36	756		
TS1125	I <sub>max</sub> =4623cd/klm	I <sub>max</sub>	12093cd	5	1.70	484

Maximum UGR = 3.7 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)	
		Ra90		19°		
Fixture Power	20W	1	0.34	12453		
Source Flux	2694lm	2	0.68	3113		
Fixture Flux	2201lm	3	1.02	1384		
Efficacy	110lm/W	4	1.36	778		
TS1125	I <sub>max</sub> =4623cd/klm	I <sub>max</sub>	12453cd	5	1.70	498

Maximum UGR = 3.8 (based on actual lumens)

# OZ 48V LARGE

## PHOTOMETRY

### FLOOD (MULTIPLE)

		2700K	H(m)	D(m)	Emax(lx)	
		Ra90		27°		
Fixture Power	21W	1	0.49	6798		
Source Flux	2775lm	2	0.98	1700		
Fixture Flux	2076lm	3	1.47	755		
Efficacy	98lm/W	4	1.95	425		
TS1126-	I <sub>max</sub> =2450cd/klm	I <sub>max</sub>	6798cd	5	2.44	272

Maximum UGR = 5.0 (based on actual lumens)

		3000K	H(m)	D(m)	Emax(lx)	
		Ra90		27°		
Fixture Power	21W	1	0.49	7077		
Source Flux	2889lm	2	0.98	1769		
Fixture Flux	2161lm	3	1.47	786		
Efficacy	102lm/W	4	1.95	442		
TS1126-	I <sub>max</sub> =2450cd/klm	I <sub>max</sub>	7077cd	5	2.44	283

Maximum UGR = 5.2 (based on actual lumens)

		3500K	H(m)	D(m)	Emax(lx)	
		Ra90		27°		
Fixture Power	21W	1	0.49	7173		
Source Flux	2928lm	2	0.98	1793		
Fixture Flux	2190lm	3	1.47	797		
Efficacy	104lm/W	4	1.95	448		
TS1126-	I <sub>max</sub> =2450cd/klm	I <sub>max</sub>	7173cd	5	2.44	287

Maximum UGR = 5.2 (based on actual lumens)

		4000K	H(m)	D(m)	Emax(lx)	
		Ra90		27°		
Fixture Power	21W	1	0.49	7188		
Source Flux	2934lm	2	0.98	1797		
Fixture Flux	2195lm	3	1.47	799		
Efficacy	104lm/W	4	1.95	449		
TS1126-	I <sub>max</sub> =2450cd/klm	I <sub>max</sub>	7188cd	5	2.44	288

Maximum UGR = 5.2 (based on actual lumens)

### MEDIUM WIDE FLOOD (MULTIPLE)

		2700K	H(m)	D(m)	Emax(lx)	
		Ra90		37°		
Fixture Power	21W	1	0.66	5262		
Source Flux	2775lm	2	1.32	1316		
Fixture Flux	2287lm	3	1.98	585		
Efficacy	108lm/W	4	2.64	329		
TS1127	I <sub>max</sub> =1896cd/klm	I <sub>max</sub>	5262cd	5	3.31	210

Maximum UGR = 4.1 (based on actual lumens)

		3000K	H(m)	D(m)	Emax(lx)	
		Ra90		37°		
Fixture Power	21W	1	0.66	5478		
Source Flux	2889lm	2	1.32	1370		
Fixture Flux	2381lm	3	1.98	609		
Efficacy	113lm/W	4	2.64	342		
TS1127	I <sub>max</sub> =1896cd/klm	I <sub>max</sub>	5478cd	5	3.31	219

Maximum UGR = 4.3 (based on actual lumens)

		3500K	H(m)	D(m)	Emax(lx)	
		Ra90		37°		
Fixture Power	21W	1	0.66	5552		
Source Flux	2928lm	2	1.32	1388		
Fixture Flux	2413lm	3	1.98	617		
Efficacy	114lm/W	4	2.64	347		
TS1127	I <sub>max</sub> =1896cd/klm	I <sub>max</sub>	5552cd	5	3.31	222

Maximum UGR = 4.3 (based on actual lumens)

		4000K	H(m)	D(m)	Emax(lx)	
		Ra90		37°		
Fixture Power	21W	1	0.66	5564		
Source Flux	2934lm	2	1.32	1391		
Fixture Flux	2418lm	3	1.98	618		
Efficacy	115lm/W	4	2.64	348		
TS1127	I <sub>max</sub> =1896cd/klm	I <sub>max</sub>	5564cd	5	3.31	223

Maximum UGR = 4.3 (based on actual lumens)

# OZ 48V LARGE

## PHOTOMETRY

### DBS SPOT

2700K		H(m)	D(m)	E <sub>max</sub> (lx)		
Ra90				22°		
Fixture Power	8W	1	0.39	2390		
Source Flux	785lm	2	0.78	597		
Fixture Flux	576lm	3	1.17	266		
Efficacy	76lm/W	4	1.56	149		
TS1287	I <sub>max</sub> =3045cd/klm	I <sub>max</sub>	2390cd	5	1.95	96

Maximum UGR = 12.6 (based on actual lumens)

3000K		H(m)	D(m)	E <sub>max</sub> (lx)		
Ra90				22°		
Fixture Power	8W	1	0.39	2576		
Source Flux	846lm	2	0.78	644		
Fixture Flux	621lm	3	1.17	286		
Efficacy	82lm/W	4	1.56	161		
TS1287	I <sub>max</sub> =3045cd/klm	I <sub>max</sub>	2576cd	5	1.95	103

Maximum UGR = 12.8 (based on actual lumens)

3500K		H(m)	D(m)	E <sub>max</sub> (lx)		
Ra90				22°		
Fixture Power	8W	1	0.39	2685		
Source Flux	882lm	2	0.78	671		
Fixture Flux	647lm	3	1.17	298		
Efficacy	85lm/W	4	1.56	168		
TS1287	I <sub>max</sub> =3045cd/klm	I <sub>max</sub>	2685cd	5	1.95	107

Maximum UGR = 13.0 (based on actual lumens)

4000K		H(m)	D(m)	E <sub>max</sub> (lx)		
Ra90				22°		
Fixture Power	8W	1	0.39	2734		
Source Flux	898lm	2	0.78	683		
Fixture Flux	659lm	3	1.17	304		
Efficacy	87lm/W	4	1.56	171		
TS1287	I <sub>max</sub> =3045cd/klm	I <sub>max</sub>	2734cd	5	1.95	109

Maximum UGR = 13.0 (based on actual lumens)

### DBS MEDIUM WIDE FLOOD

2700K		H(m)	D(m)	E <sub>max</sub> (lx)		
Ra90				46°		
Fixture Power	8W	1	0.84	715		
Source Flux	785lm	2	1.69	179		
Fixture Flux	548lm	3	2.53	79		
Efficacy	72lm/W	4	3.37	45		
TS1288	I <sub>max</sub> =910cd/klm	I <sub>max</sub>	715cd	5	4.21	29

Maximum UGR = 20.4 (based on actual lumens)

3000K		H(m)	D(m)	E <sub>max</sub> (lx)		
Ra90				46°		
Fixture Power	8W	1	0.84	770		
Source Flux	846lm	2	1.69	193		
Fixture Flux	591lm	3	2.53	86		
Efficacy	78lm/W	4	3.37	48		
TS1288	I <sub>max</sub> =910cd/klm	I <sub>max</sub>	770cd	5	4.21	31

Maximum UGR = 20.6 (based on actual lumens)

3500K		H(m)	D(m)	E <sub>max</sub> (lx)		
Ra90				46°		
Fixture Power	8W	1	0.84	803		
Source Flux	882lm	2	1.69	201		
Fixture Flux	616lm	3	2.53	89		
Efficacy	81lm/W	4	3.37	50		
TS1288	I <sub>max</sub> =910cd/klm	I <sub>max</sub>	803cd	5	4.21	32

Maximum UGR = 20.8 (based on actual lumens)

4000K		H(m)	D(m)	E <sub>max</sub> (lx)		
Ra90				46°		
Fixture Power	8W	1	0.84	817		
Source Flux	898lm	2	1.69	204		
Fixture Flux	627lm	3	2.53	91		
Efficacy	83lm/W	4	3.37	51		
TS1288	I <sub>max</sub> =910cd/klm	I <sub>max</sub>	817cd	5	4.21	33

Maximum UGR = 20.8 (based on actual lumens)

# OZ 48V LARGE

## CONTROL SYSTEM

Controlling light has never been easier. Targetti [LMS \(Light Management System\)](#) with Control by Casambi was created to make it possible to control light via Bluetooth Low Energy without the use of any special cables, ensuring system operational readiness. This wireless technology is compatible with all modern smart devices: smartphones, tablets and even smartwatches. Targetti fixtures are equipped with a special interface that allows them to communicate with each other to create a remotely controllable "smart" network.

The advantages are boundless. The possibility for users to interact with lighting – varying intensity, tone and shape in complete freedom and autonomy according to their needs. The design approach known as Human Centric Lighting that places people at the center of lighting projects.

Flexible and easy to use, suitable for managing all types of simple to more complex systems, LMS is a future-oriented system that can be constantly updated because it can be used with a simple application that can be downloaded onto a mobile device to manage the entire system in wireless mode.

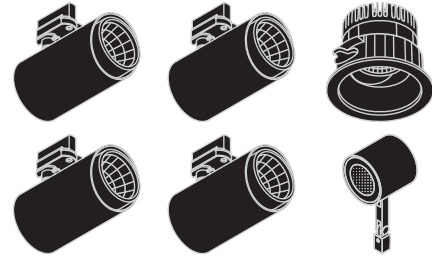
## INSTALLATION SEQUENCE

1

Choose Targetti fixtures by opting for the Targetti Casambi Ready package or Casambi accessory components



Single



Groups

2

Download the Casambi iOS or Android App depending on the device used

Unit control

3

Launch the App: the fixtures in operation will be detected automatically

4

Create one or two networks depending on the characteristics of the environment

5

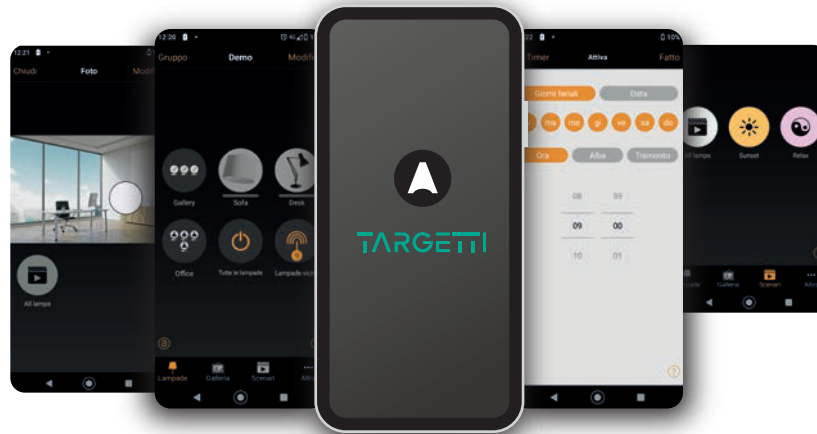
Create groups of devices as needed

6

Program scenes and/or sequences.

7

Set the level of network sharing

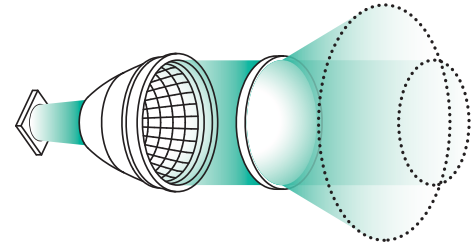


# OZ 48V LARGE

## DBS – DYNAMIC BEAM SHAPING

Uniform light and contemporary atmosphere.

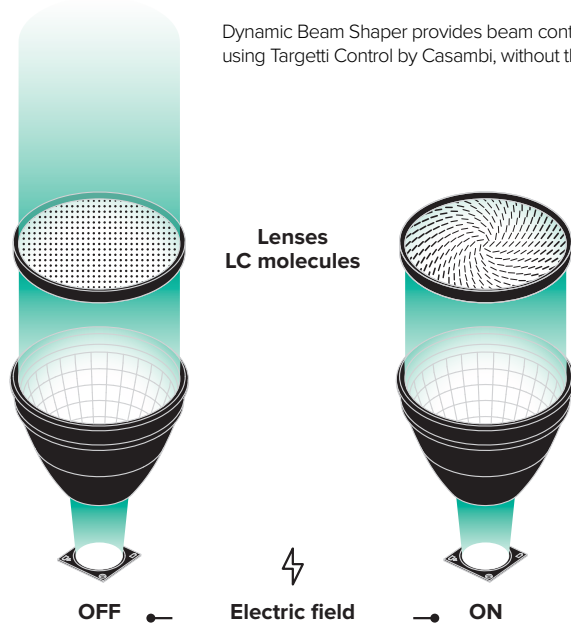
Dynamic Beam Shaping (DBS) optical technology was created from the desire to give designers a sophisticated yet simple to use tool. Technology that we were the first to develop in the lighting sector together with Lens Vector – a leading American company in lens design - that makes it possible to vary the beam opening of fixtures via digital input without any mechanical system. With DBS we combined LED sources, collimated optics and lenses equipped with liquid crystal molecules that can be activated and oriented using an electric field thus creating a light diffusion process.



### HOW IT WORKS

Liquid crystal materials are widely used in projectors and LC (LCD) displays. They are elongated molecules that are naturally aligned in the same direction. The DBS lens is composed of two glass substrates separated by spacers that are sealed to contain the liquid crystal materials in a kind of "sandwich". When an electric field is applied to the lens the molecules change direction and refocus the light that passes through the lens. Managing the electric field and the direction of the molecules it is possible to shape the light beam.

Dynamic Beam Shaper provides beam control from 15° to 55°, allowing designers to create scenes and manage lighting in different environments using Targetti Control by Casambi, without the use of mechanical systems, scales or replacement optics.



### HOW IT'S CONTROLLED

Using the Casambi app, available for IOS and Android, it is possible to dim the sources, set the desired beam opening and create dynamic scenes. The same fixture controlled from any smart device provides infinite possibilities.

